PRINTING

PRINT, CHECK, JOIN AND CARRY YOUR MAP PAGES

Every T.REX ARMS map page is a true-scale map: its grid, scale bars and romers only work when the paper shows it at exactly 100 %. A few settings in the print dialog get that right, and pages picked together join into one larger map.

EQUIPPING SERIOUS CITIZENS

PRINT AT ACTUAL SIZE

In the print dialog choose Actual size, or a scale of 100 %. Fit, Shrink oversized pages and Fit to printable area shrink the map by a few percent, and every distance with it.

Acrobat, Reader	Page Sizing & Handling › Actual size
Chrome, Edge	More settings › Scale › Custom: 100
Firefox	Scale › 100 %
Mac Preview	Scale 100 %, not Scale to Fit

Then measure the km scale bar in the collar with a ruler: 100 mm at 1:25,000, 1:50,000 and 1:15,000 (the collar gives its length), or a grid square (the table gives its size). If it comes out 3 or 4 % short, something shrank the page: print it again.

PRINTER SETTINGS

- Paper: US Letter.
- Colour on. Red and black roads, blue water, brown contours and green woods only tell apart in colour.
- Quality: best or high. Draft, eco and toner-saving modes thin out the finest lines, contours first.
- Borderless printing off: it enlarges the page.

PAPER AND INK

- Laser toner does not run in the rain. Most inkjet ink does; pigment ink holds up better than dye ink.
- For the field: weatherproof paper made for your kind of printer (laser and inkjet versions differ), or synthetic sheets in a laser printer rated for them.
- Heavier plain paper (24 lb, 90 g/m²) survives folding better than 20 lb copy paper.

THE LEGEND ON THE BACK

The legend (Legend & guides, in the app) is one page made to go on the back of a map page.

1. Print the map pages.
2. Put them back in the paper tray to print on the blank side. Which way round depends on the printer: try one marked sheet first.
3. Print the legend, one copy per map page.

Or print it once and keep it with the set. Its romers need 100 % too.

FOLDING AND CARRYING

- Fold so the area you are working in faces out, and keep creases off your route: paper wears through at the folds first.
- A clear zip bag or map case keeps the page dry and readable.
- Paper takes a soft pencil; laminated and synthetic sheets take wet-erase or grease pencil.
- Prints are free: carry a spare.

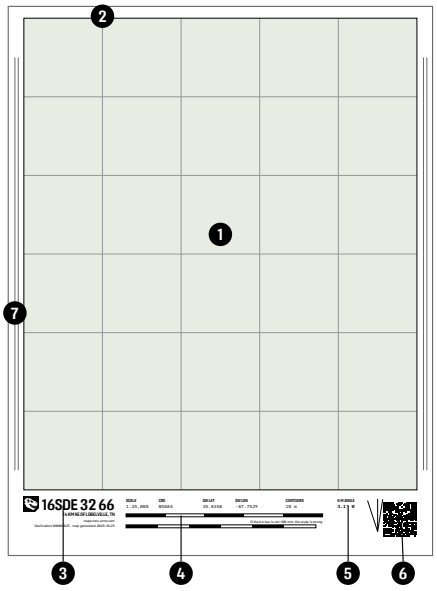
IF THE BAR IS WRONG

Shorter	About 94 to 97 mm: the page was fitted to the printable area. Print at Actual size / 100 %.
Longer	Borderless or fill-page printing is on. Turn it off.
Up and down	Measure a grid square both ways (the table gives its size). Some printers stretch a little along the paper feed; a few tenths of a millimetre is normal.

BEFORE YOU GO

- ☐ The km scale bar measures what the collar says (100 mm at 1:25,000).
- ☐ Every page of the set, in order, joined or numbered.
- ☐ A recent print: the G–M angle in the collar is for the print date, and magnetic north moves every year.
- ☐ The legend, on the back or in the bag.
- ☐ A spare copy and a pencil.

WHAT IS ON A PAGE



1. The map: frame 200 × 240 mm (landscape 240 × 200 with the collar on the right), grid north up.
2. Grid numbers name the 1 km lines; ticks outside the frame every 100 m. In blue outside the frame, left and bottom, the second notation chosen in the app: the next UTM zone's grid near a zone edge, or latitude and longitude.
3. Sheet reference: the MGRS reference of the SW corner and the nearest place; the declination model and the print date.
4. Scale, datum, SW corner lat/lon, contour interval; km and mile scale bars. Measure the km bar to check the print.
5. The G–M angle, with its change per year, and the north arrows.
6. QR code: reopens these pages in the app.
7. Margins: data credits, the heights datum, layers switched off.

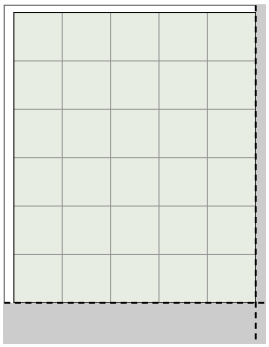
ONE PAGE COVERS (PORTRAIT; LANDSCAPE TURNS IT)

Scale	Ground	1 km grid square
1:15,000	3 × 3.6 km	66.7 mm
1:24,000	4.8 × 5.76 km	41.7 mm
1:25,000	5 × 6 km	40.0 mm
1:48,000	9.6 × 11.52 km	20.8 mm
1:50,000	10 × 12 km	20.0 mm

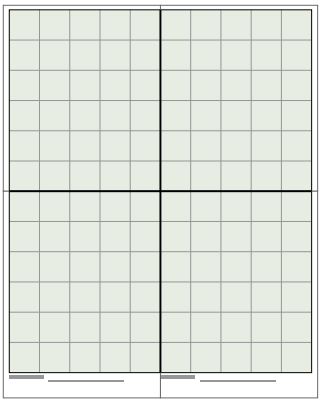
JOINING PAGES

Pages picked together in one print meet exactly at their frame lines: no overlap, no gap, and the grid runs straight on across the join.

1. Fold the margin under along the frame line, or trim it: the right margin of a page with a neighbour to the east, the bottom margin with the collar of a page with a neighbour below (landscape: the collar is the right margin). Folding keeps the collar.
2. Lay the fold on the neighbour's frame line, line up two grid lines, and tape along the back.



Shaded: fold under (or trim) along the frame line.



Four pages joined: frames meet, the grid runs straight on.

The PDF runs row by row from north to south, each row west to east, and the SW corner reference in each collar says where a page goes. Large sets download as several files (part 1 of 3…), in the same order. To add pages later, open the set from its QR code: new pages line up with the ones you have.

100 mm. Measure it: if this bar is not 100 mm, your printer is scaling pages. Print at Actual size / 100 %.